

List of Current Claims:

Claims 1-16 (cancel).

17. (New) A closure cap for a fixed neck of a container, in particular a motor vehicle radiator, having:

an outer cap element;

an inner cap element said outer cap element having a closure element for the container neck and a grip element, which can be rotated in relation to the latter;

a twist-prevention device which acts between said grip element and said closure element, said inner cap element having a flow connection between the interior of the container and the exterior of the container;

a valve arrangement for releasing or blocking the flow connection, which valve arrangement has an axially movable overpressure valve body, which is pressed under initial tension toward the interior of the container against a seal at said inner cap element in such a way that, when a threshold value of the interior container pressure is exceeded, it can be lifted off the seal;

an underpressure valve body; and

a thermally or pressure-controlled drive mechanism in the form of a capsule made of an expandable material or of a diaphragm, wherein:

said twist-preventing element is disengaged by means of a said thermally or pressure-controlled drive mechanism;

said drive mechanism is arranged in said outer cap element and is provided with a linearly extending transmitting element, which penetrates said overpressure valve body in the cap axis and extends into the area of said inner cap element which is connected with the neck of the container; and

said underpressure valve body is arranged concentrically with respect to the cap axis.

18. (New) The closure cap of claim 17, wherein:

said underpressure valve body is integrated with said twist-prevention device.

19. (New) The closure cap of claim 17, wherein:

said twist-prevention device is formed by a blocking plate, in the middle region of which, oriented toward said pressure-controlled or thermally-controlled drive mechanism, the said underpressure valve body is retained in axially spring-loaded fashion.

20. (New) The closure cap of claim 19, wherein:

said underpressure valve body is retained axially movably in a central bore in said blocking plates, and a compression spring acting between said underpressure valve body and the top of said blocking plate presses an annular sealing face of said underpressure valve body against the underside of said blocking plate.

21. (New) The closure cap of claim 17, wherein:

said underpressure valve body surround said elongated pressure- or temperature-transmitting element, preferably near the free end of said inner cap element.

22 (New) The closure cap of claim 17, wherein:

said underpressure valve body is integrated with said overpressure valve body.

23. (New) The closure cap of claim 17, wherein:

said pressure- or transmitting element is embodied as a hollow or solid rod, along whose outer circumference said overpressure valve body, prestressed by an axial compression spring, is guided.

24. (New) The closure cap of claim 17, wherein:

between an annular sealing seat for said overpressure valve body, on a centrally pierced bottom of said inner cap element, and the underside remote from said axial compression spring, of said overpressure valve body, the liftable outer circumferential region of a sealing diaphragm is disposed, whose inner circumferential region brings about an over pressure sealing that is constantly axially operative for the overpressure valve body between said overpressure valve body and said elongated pressure- or temperature-transmitting element.

25. (New) The closure cap of claim 22, wherein:

said inner circumferential region of said sealing diaphragm can be lifted away counter to the action of a compression spring that acts in the direction of an overpressure.

26. (New) The closure cap of claim 25, wherein:

said inner circumferential region of said sealing diaphragm is pressed against a shoulder of said elongated pressure- or temperature-transmitting element; and

said compression spring is braced on the bottom of said inner cap element.

27. (New) The closure cap of claim 23, wherein:

said pressure- or pressure-transmitting element penetrates the bottom of said inner cap element.

28. (New) The closure cap of claim 23, wherein:

said pressure-transmitting element has a through bore, whose inlet side, toward the container, discharges at the bottom of said inner cap element, and whose outside, remote from the container, is covered by said diaphragm.

29. (New) the closure cap of claim 17, wherein:

said diaphragm, with its central region, is opposite the outlet side of said through bore, and is fastened in place in pressure-proof fashion on the outer circumference, and on the inner circumference rests between the underside of said blocking plate and the annular sealing face of said underpressure valve body.

30. (New) The closure cap of claim 29, wherein:

said diaphragm is fastened in place on the circumferential region of an end flange of said pressure-transmitting element.

31. (New) The closure cap of claim 17, wherein:

said inner cap element has a centrally pierced false bottom, on the top of which said flange, provided with said diaphragm, or the capsule made of expandable material rests, and from whose underside said valve arrangement is suspended.

32. (New) The closure cap of claim 19, wherein:

said blocking plate is connected nonrotatably but axially movably to the said closure element; and

radially outward-pointing prongs of said blocking plate become engaged between radially inward-pointing prongs of said grip element.